

## Post EDC: Facilitator/Instructor Activity Educator Feedback Form

**Instructions:** As an instructor of a recently completed NASA & US Department of Education 21st Century Community Learning Collaboration Phase 4 Engineering Design Challenge (EDC) Activity, we are asking that you take part in this questionnaire to evaluate your experiences with the NASA EDC you instructed. Your answers to these questions will help us learn more about the activity, including what worked well and what we may improve on. Please complete the questions on this survey to the best of your ability. This survey is voluntary. You do not have to take the survey or answer any questions you do not want to. Also, your responses are confidential, meaning that your name will never be tied to your responses and no one will know how you responded to these questions.

We also want to validate the estimate for how long it takes to complete this survey. Therefore, we ask that you please note the time that you start this survey because we will ask at the end how long it took to complete this survey.

Thank you very much for your help!

If you wish to participate in this survey, please continue.

**Privacy Notice:** This is an official NASA application hosted on SurveyMonkey.com. This is not a government application, the application is controlled and operated by a third party. NASA's Web Privacy Policy does not apply to this application. NASA will not maintain, use, or share Personally Identifiable Information (PII) that becomes available through the use of this third-party application unless expressly stated and consent is obtained from the user. For additional information on NASA's Third-Party Privacy Notice please go to [http://www.nasa.gov/about/highlights/HP\\_Privacy.html](http://www.nasa.gov/about/highlights/HP_Privacy.html).

**Paperwork Reduction Act Statement:** This information collection meets the requirements of 44 U.S.C. §3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 2700-0159 and expires 06/30/2021. We estimate that it will take 20 minutes to read the instructions and answer the questions. Send only comments relating to this time estimate to: [richard.l.gilmore@nasa.gov](mailto:richard.l.gilmore@nasa.gov).

**Thank you for participating in this survey!**

## Post EDC: Facilitator/Instructor Activity Educator Feedback Form

*First, we'd like to ask some question about the NASA Engineering Design Challenge (EDC).*

\* 1. Did you instruct the current NASA EDC? (Select all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Parachuting onto Mars   | <input type="checkbox"/> Mission to Mars |
| <input type="checkbox"/> Why Pressure Suits?     | <input type="checkbox"/> Space Travel    |
| <input type="checkbox"/> Packing up for the Moon | <input type="checkbox"/> Let It Glide    |
| <input type="checkbox"/> Spacecraft Safety       |  |

\* 2. Enter your State name.

\* 3. Has your site previously implemented an inquiry-based STEM program or activity? (Select One)

- ☐ Yes
- ☐ No
- ☐ I Don't Know

\* 4. Enter your four-digit identifier number.

\* 5. What is the name of the site where the NASA EDC was implemented?

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\* 6. Have you instructed any previous NASA EDC before? (Select all that apply)

- ☐ Parachuting onto Mars
- ☐ Why Pressure Suits
- ☐ Packing Up for the Moon
- ☐ Spacecraft Safety
- ☐ Mission to Mars
- ☐ Space Travel
- ☐ Let It Glide

\* 7. Approximately how much time did it take you to prepare for the NASA EDC, including trainings, interactions with NASA scientists or engineers, and personal preparation?

# of days

\* 8. How many students worked on the NASA EDC?

# of students at the start

# of students at the end

\* 9. How much time did it take for your students to complete the NASA EDC, including instructional time, sessions with NASA scientists or engineers, planning, building, and video presentation?

# of classes

# of minutes

\* 10. How was the NASA EDC selected? (Select One)

- ☐ Chosen by students
- ☐ Assigned to students

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\* 11. Please rate the extent to which you agree with the following statements regarding the face-to-face professional development training you received on the NASA EDC.

	Strongly Disagree	Disagree	Agree	Strongly Agree
The training materials (i.e., facilitation guide) met my needs to successfully implement the NASA EDC.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The DoS Program Planning Tool and Training Handbook met my needs to successfully implement the NASA EDC.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The Y4Y website and associated resources met my need to successfully implement the NASA EDC.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall, the training met my needs to successfully implement the NASA EDC	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Next, we'd like for you to rate your comfort and knowledge level for teaching STEM topics.

\* 12. How knowledgeable are you **NOW** in the following STEM topics?

	Not at all Knowledgeable	Slightly Knowledgeable	Somewhat Knowledgeable	Very Knowledgeable
Science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Technology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* 13. Next, we'd like for you to rate your comfort and knowledge level for teaching STEM topics.

How comfortable were you in teaching the following STEM areas?

	Very Uncomfortable	Slightly Uncomfortable	Slightly Comfortable	Very Comfortable
Science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Technology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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\* 14. Next, we'd like to ask about your beliefs in your STEM teaching efficacy.

Please indicate the degree to which you agree with each statement below

	Strongly Disagree	Disagree	Agree	Strongly Agree
I am continually finding better ways to teach science/engineering.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Even when I try very hard, I do not teach science/engineering as well as I do other subjects.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I know the steps necessary to teach science/engineering concepts effectively.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am not effective in monitoring science/engineering experiments.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I generally teach science/engineering ineffectively.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I understand science/engineering concepts well enough to be effective in teaching science or engineering.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I find it difficult to explain to students why science/experiments work.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am typically able to answer students' science/engineering questions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I wonder if I have the necessary skills to teach science/engineering.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Given a choice, I would not invite the principal to evaluate my science/engineering teaching.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Strongly Disagree	Disagree	Agree	Strongly Agree
When a student has difficulty understanding a science/engineering concept, I am usually at a loss to how to help the student understand it better.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When teaching science/engineering, I usually welcome student questions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I do not know what to do to turn students on to science/engineering.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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\* 15. Next, we'd like to ask you about your experiences with the NASA EDC face-to-face professional development training? (Select One)

Did you attend a face-to-face professional development training? (Select one)

- ☐ Yes
- ☐ No (Skip to #16)

\* 16. Did you have any technical assistant issues with the NASA scientist or engineer (sometimes called subject matter experts or SMEs)?

- ☐ N/A I did not try to communicate with SME (I N/A, skip to #24)
- ☐ Yes
- ☐ No

\* 17. Additionally, please let us know what was successful about your implementation of the NASA EDC, what challenges you faced, and what you would change about the training and the activity to make it more successful in the future.

Please describe what was successful about your implementation of the NASA EDC.

\* 18. What professional development activities did you attend? (Select all that apply)

- |   |  |
|---|--|
| <input type="checkbox"/> Making the Most of the NASA Engineer and Scientist Connections to Students Webinar | <input type="checkbox"/> Evaluation Webinar        |
| <input type="checkbox"/> Review of the Engineering Design Process   | <input type="checkbox"/> DoS Program Planning Tool |
| <input type="checkbox"/> NASA Science Topics related to the EDC Activity                                    |  |

\* 19. Did you have any technical problems attending the professional development webinar?

- ☐ Yes
- ☐ No



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\* 20. Now, we'd like you to rate the quality of the NASA EDC technical assistance.

How many times did you request technical assistance via phone or e-mail after the training?

☐ Never (skip to #22)

☐ 6-9 times

☐ Once

☐ 10 or more times

☐ 2-5 times

\* 21. Finally, we'd like to ask some questions about you

Are you....(Select only one)

☐ Female

☐ Male

\* 22. What suggestions do you have for successfully implementing the NASA EDC in the future (e.g., changes in training, content, structure, etc.)?

\* 23. Please describe any challenges you had implementing the NASA EDC.

\* 24. What is your Race (one or more categories may be selected)?

☐ American Indian or Alaska Native

☐ Native Hawaiian or other Pacific Islander

☐ Asian

☐ White or Caucasian

☐ Black or African American

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\* 25. Please rate the extent to which you agree with the following statement:

The webinar(s) met my needs to successfully implement the NASA EDC.

- ☐ Strongly Disagree
- ☐ Disagree
- ☐ Agree
- ☐ Strongly Agree

\* 26. How many times did you communicate with the NASA scientist or engineer (sometimes called subject matter experts or SMEs) during the NASA EDC?

- ☐ Once
- ☐ 2 times
- ☐ 3 times
- ☐ more than 3 times

\* 27. ---End of Test Survey---

Please provide feedback on your experience with this survey by answering the following questions.

Please indicate the level to which you agree or disagree with each statement.

	Strongly Disagree	Disagree	Agree	Strongly Agree
The survey instructions were clear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The questions were easy to understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* 28. Are you Hispanic or Latino/Latina?

- ☐ Yes
- ☐ No

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\* 29. Did you find the technical assistance helpful to your implementation of the NASA EDC?

☐ Yes, somewhat helpful

☐ Yes, a great deal helpful

☐ No, not helpful at all

\* 30. Next, we'd like to ask you about your experiences with the NASA EDC professional development webinars.

Did you attend an available professional development webinar (Select one)

☐ Yes

☐ No (Skip to #20)

\* 31. Do you have any additional comments or feedback on the instructions, questions, or survey navigation?